

## Radiochemistry Technician

**Project Title:** advancing radioiodination techniques using metal-free C-H activation

**Project Overview:** We are seeking a motivated and skilled (radio)chemistry technician to support our research team. This project, led by Dr. Thomas Cailly, focuses on developing a novel radioiodination technique utilizing metal-free C-H activation. The successful candidate will play a key role in lab-based work, assisting in the synthesis and characterization of radiolabeled compounds for imaging and therapeutic applications. The position involves collaboration with a team of experts in iodine radiochemistry and metal-free C-H activation, contributing to advancements in medical imaging.

### Responsibilities:

- Conduct lab experiments to support the development of radioiodination techniques using carbon-hydrogen bond activation.
- Assist in the preparation, purification, and characterization of radio-iodinated compounds using techniques such as HPLC and mass spectrometry.
- Synthesize the radiolabeling precursors and reference compounds needed to monitor radiolabeling.
- Ensure accurate data collection and maintain detailed records of laboratory procedures and results.
- Support maintenance and operational readiness of the radiochemistry equipment.
- Adhere to safety protocols and radiological protection guidelines.
- Collaborate with researchers and assist with project-specific needs.

### Qualifications:

- Bachelor's degree or higher in chemistry.
- Experience with laboratory techniques in synthetic organic chemistry; radiochemistry experience is an advantage but not required.
- Familiarity with standard analytical methods (mass, NMR, IR), particularly HPLC, is desirable.
- Strong organizational skills and attention to detail.
- Ability to work independently and as part of a collaborative team.

### Benefits:

- Full-time position starting in January 2025 (subject to funding).
- Access to state-of-the-art research facilities.
- Radiation safety and technical training provided.
- Opportunities for professional development.
- Supportive work environment with mentorship from experienced researchers.

**Application Process:** Interested candidates should submit a cover letter, CV, academic transcripts, and contact information for two references to Dr. Thomas Cailly at



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[thomas.cailly@unicaen.fr](mailto:thomas.cailly@unicaen.fr) or Pr. Valérie Collot at [valerie.collot@unicaen.fr](mailto:valerie.collot@unicaen.fr). Review of applications will begin immediately and continue until the position is filled.

**About the Research Group:** [The synthetic methodology and radiochemistry](#) group, led by Dr. Thomas Cailly, is dedicated to pioneering new iodine radiochemistry methodologies for medical imaging. We value collaboration and interdisciplinary work, contributing to meaningful advancements in molecular imaging and theranostics.